

FIGURE 1A

1	GNCTAGAA	TAGTGATCC	CCCCGGGCTG	CAGGAATTCC	GACGGCCCCCT	GGAAGGGCTC	TGGTGGGGCT	GAGCGCTCTG	CCGCGGGGGC	GCGGGCACAG
	CNAGATCTTN	ATCACCTAGG	GGGGCCCGAC	GTCTTAAGG	CTGCCGGGA	CCTTCCCGAG	ACCACCCCGA	CTCGCGAGAC	GGCGCCCCCG	CGCCCGTGTC
101	CAGGAAGCAG	GTCCCGCTGG	GGCGTGGGG	CATCAGCTAC	CGGGTGGTC	CGGGCTGAAG	AGCCAGGCAG	CCAAGGCAGC	CACCCCGGGG	GGTGGGCGAC
	GTCTTTCGTC	CAGGCGCACC	CGCGACCCC	GTAGTCGATG	GCCCCACCAG	GCCCGACTTC	TCGGTCCGTC	GGTTCGTCG	GTGGGGCCCC	CCACCCGCTG
201	TTTGGGGGAG	TTGGTGCCCC	GCCCCCCAGG	CCTTGGCGGG	GTCTATGGGG	CCCCCATTC	TGGGCCCGGG	GGCGTGCAG	TCGGGGCCCC	GCTGTGCTG
	AAACCCCTC	AACCACGGG	CGGGGGTCC	GGAACCGGCC	CAGTACCCCG	GGGGGGTAAG	ACCCGGCCCC	CCGACGCTC	AGCCCCGGA	CGACGACGAC
1					MetGlyp	roProHis	rGlyProGly	GlyValArgV	alGlyAlaLe	uLeuLeuLeu
301	GGGGTTTGG	GGTGGTGTG	TGGGCTCAGC	CTGAGCCCTG	TCTACTGGAA	CTCGGCGAAT	AAGAGGTTCC	AGGCAGAGGG	TGGTTATGTG	CTGTACCCCTC
	CCCCAAAACC	CCGACCACAG	ACCCGAGTCG	GACCTCGGAC	AGATGACCTT	GAGCCGCTTA	TTCTCCAAGG	TCCGCTCTCC	ACCAATACAC	GACATGGGAG
20	GlyValLeuG	lyLeuValSe	rGlyLeuSer	LeuGluProv	alTyrTrpAs	nSerAlaAsn	LysArgPheG	lnAlaGluG1	yGlyTyrVal	LeuTyrProGln
401	AGATCGGGGA	CCGGCTAGAC	CTGCTCTGCC	CCCCGGCCCCG	GCCTCTCTGC	CCTCACTCCT	CTCCTAATTA	TGAGTTCTAC	AAGCTGTACC	TGGTAGGGGG
	TCTAGCCCCCT	GGCCGATCTG	GACGAGACGG	GGGCCCGGGC	CGGAGGACCG	GGAGTGAGGA	GAGGATTAAT	ACTCAAGATG	TTCGACATGG	ACCATCCCCC
54	IleGlyAs	pArgLeuAsp	LeuLeuCysp	roArgAlaAr	gProProGly	ProHisSers	erProAsnTy	rGluPheTyr	LysLeuTyrL	euValGlyGly
501	TGCTCAGGGC	CGGCGCTGTG	AGGCACCCCC	TGCCCCAAAC	CTCCTTCTCA	CTTGTGATCG	CCCAGACCTG	GATCTCCGCT	TCACCATCAA	GTTCCAGGAG
	ACGAGTCCCG	GCCGCGACAC	TCCGTGGGG	ACGGGTCTTG	GAGGAAGAGT	GAACACTAGC	GGGTCTGGAC	CTAGAGGCGA	AGTGGTAGTT	CAAGGTCTCTC
87	AlaGlnGly	ArgArgCysG	luAlaProPr	oAlaProAsn	LeuLeuLeuT	hrCysAspAr	gProAspLeu	AspLeuArgp	heThrIleLy	spHeGlnGlu
601	TATAGCCCTA	ATCTCTGGGG	CCACGAGTTC	CGCTCGCACC	ACGATTACTA	CATCATTTGCC	ACATCGGATG	GGACCCGGGA	GGGCTGGAG	AGCCTGCAGG
	ATATCGGGAT	TAGAGACCCC	GGTGCTCAAG	GGGAGCGTGG	TGCTAATGAT	GTAGTAACGG	TGTAGCCTAC	CCTGGGCCCT	CCCGGACCTC	TCGGACGTCC
120	TyrSerProA	snLeuTrpG1	yHisGluPhe	ArgSerHisH	isAspTyrTy	rIleIleAla	ThrSerAspG	lyThrArgG1	uGlyLeuGlu	SerLeuGlnGly
701	GAGGTGTGTG	CCTAACCAAG	GGCATGAAGG	TGCTTCTCCG	AGTGGGACAA	AGTCCCGGAG	GAGGGGCTGT	CCCCCGAAAA	CCTGTGTCTG	AAATGCCCAT
	CTCCACACAC	GGATTGGTCT	CCGTACTTCC	ACGAAGAGGC	TCACCCCTGT	TCAGGGGCTC	CTCCCGGACA	GGGGGCTTTT	GGACACAGAC	TTTACGGGTA
154	GlyValCy	sLeuThrArg	GlyMetLysV	alLeuLeuAr	gValGlyGln	SerProArgG	lyGlyAlaVa	lProArgLys	ProValserG	luMetProMet
801	GAAAGAGAC	CGAGGGGCAG	CCCACAGCCT	GGAGCCTGGG	AAGGAGAACC	TGCCAGGTGA	CCCCACCAGC	AATGCAACCT	CCCGGGGTGC	TGAAAGGCCCC
	CCTTCTCTCTG	GCTCCCCCGTC	GGGTGTCGGA	CCTCGGACCC	TTCCTCTTGG	ACGGTCCACT	GGGTGGTTCG	TTACGTTGGA	GGGCCCCACG	ACTTCCGGGG
187	GluArgAsp	ArgGlyAlaA	laHisSerLe	uGluProGly	LysGluAsnL	euProGlyAs	pProThrSer	AsnAlaThrS	erArgGlyAla	agluGlyPro
901	CTGCCCCCTC	CCAGCATGCC	TGCAGTGGCT	GGGGCAGCAG	GGGGCTGGC	GCTGCTCTTG	CTGGCGCTGG	CAGGGGCTGG	GGGTGCCATG	TGTTGGCGGA
	GACGGGGGAG	GGTCGTACGG	ACGTCACCGA	CCCCGTCGTC	CCCCCGACCG	CGACGAGAAC	GACCCGACCC	GACCCGACCC	GTCCCCGACC	CCCACGGTAC
220	LeuProProp	roSerMetPr	oAlaValAla	GlyAlaAlaG	lyGlyLeuAl	aLeuLeuLeu	LeuGlyVala	laglyAlaG1	yGlyAlaMet	CysTrpArgArg
1001	GACGGCGGGC	CAAGCCTTCG	GAGAGTCGCC	ACCTTGGTCC	TGGCTCCTTC	GGGAGGGGAG	GGTCTCTGGG	CCTGGGGGGT	GGAGGTGGGA	TGGGACCTCG
	CTGCGCGCCC	GTTCGGAAGC	CTCTCAGCGG	TGGGACCCAG	ACCGAGGAAG	CCCTCCCTTC	CCAGAGACCC	GGACCCCCCA	CCTCCACCTC	ACCTGGAGC
254	ArgArgAl	aLysProSer	GluSerArgH	isProGlyPr	oGlySerPhe	GlyArgGlyG	lySerLeuG1	yLeuGlyGly	GlyGlyGlyM	etGlyProArg
1101	GGAGGCTGAG	CCTGGGGGAG	TAGGATAGC	TCTGCGGGGT	GGCGGGGCTG	CAGATCCCCC	CTTCTGCCCC	CACATAGAGA	AGGTGAGTGG	TGACTATGGG
	CCTCCGACTC	GGACCCCTCG	ATCCCTATCG	AGACGCCCCA	CCGCCCCGAC	GTCTAGGGGG	GAAGACGGGG	GTGATACTCT	TCCACTCACC	ACTGATACCC
287	GluAlaGlu	ProGlyGluL	euGlyIleAl	aLeuArgGly	GlyGlyAlaA	laAspProPr	oPheCysPro	HistyrGluL	ysValserG1	ysAspTyrGly

FIGURE 1B

1201 CATCCTGTGT ATATCGTGCA GGATGGGCC CCCAGAGCC CTCCAAACAT CTACTACACA TCGATTCTG TGTGGAGTG GCCATATTG CATACGATAC
 GTAGGACACA TATAGCACGT CCTACCCGG GGGTCTCGG GAGTTTGTGATGATGTGT AGCTAAAGAC ACAACCTCAC CGGGTATAAC GTATGCTATG
 320 HisProValT yrIleValGl nAspGlyPro ProGlnSerP roProAsnIl eTyTyThr SerIleSerV alLeuGluTr pProIleLeu HisThrIleGln
 1301 AACTGTTTTT CATGCGATCC AAGTGCTCCC GTGTCACTAC ATTCTTATT CCTGTGCAAG TTATTACGAC ATCGACTTGC CGGATGACTT CATTTAGCTT
 TTGACAAAAA GTACGCTAGG TTCACGAGGG CACAGTGATG TAAGAATAAA GGACACGTTT AATAATGCTG TAGCTGAACG GCCTACTGAA GTAAATCGAA
 354 LeuPhePh eMetArgSer LysCysSera rgValThrTh rPheLeuPhe ProValGlnV alIleThrTh rSerThrCys ArgMetThrS erPheSerPhe
 1401 TACCACCCCTG AACCCATCCA TGCAGGCCCTG CAGAGCACAG ATGGGGGAAT TCCGAATCAG ATGGTGTTC TGGGGGGACA GGATCCTGGG TACGGCTCTG
 ATGGTGGGAC TTGGGTAGGT ACGTCCGGAC GTCTCGTGC TACCCCTTA AGGCTTAGTC TACCACAAAG ACCCCCCTGT CCTAGGACCC ATGCCGAGAC
 387 ThrThrLeu AsnProSerM etGlnAlaCy sArgAlaGln MetGlyGluP heArgIleAr gTrpCysPhe TrpGlyAspA rgIleLeuGl yThrAlaLeu
 1501 TTTGTGCTTG TGCTTATTCT TCTTCTTGG AGCTGAATA TGCATCAGAC GACACTGCTC CGGCAACGGG CCAGTGTGGA GGCGGAAGCC GGCCAGCATG
 AAACACGAAC ACGAATAAGA AGAAGAACC TCCGACTTAT ACGTAGTCTG CTGTGACGAG GCCGTGCCC GGTCACACCT CCGCTTCGG CCGTCTGTAC
 420 PheValLeuV alLeuIleLe uLeuLeuGly ArgLeuAsnM etHisGlnTh rThrLeuLeu ArgGlnArgA laSerValGl uAlaGluAla GlyGlnHisGly
 1601 GTCCCCCTGT ATAGGATTGA AAGAGCTACT GAGAATAGGG GGCTTCTCAA TGAGAGAGCG GAGGCTGCTG TTATCATGGG AACCAGGCAG ATCAATCATC
 CAGGGGACAC TATCCTAACT TTCTCGATGA CTCTTATCCC CCGAAGAGTT ACTCTCTCGC CTCCGACGAC AATAGTACCC TTGGTCCGTC TAGTTAGTAG
 454 ProLeu
 1701 CCTGGCAGGT CAGGCAGGAA GTTACTTAGC TTCTCCTTCA CCTTCTTCCC ACAGAAATTTA TTATAGGCTT GTTCCAAGTT GTAGTGTGTG ATCAGATTCTG
 GGACCGTCCA GTCCGTCCCT CAATGAATCG AAGAGGAAGT GGAAGAAGGG TGCTTTAAAT AATATCCGAA CAAGGTTCAA CATCACACAC TAGTCTAAGC
 1801 TGCTGCCTGT CAGCTCTGTG CTACCTGGCA GTTCCCCCTCA TGGAAATCGA TATCAAGCTT ATCGATACCG TCGACCT
 ACGACGGACA GTCGAGACAC GATGGACCGT CAAGGGGAGT ACCTTAAGCT ATAGTTCGAA TAGCTATGGC AGCTGGA

FIGURE 2A

1	GNTCTAGAAN	TACTGCAATCC	CCCCGGGGCTG	CAGGAATTCC	GGAAGGGCTC	TGGTGGGGCT	GAGCGCTCTG	CCCGCGGGGC	GCGGGCACAG
	CNAGATCTTN	ATCAGCTTAGG	GGCGCCCGGAC	GTCTTAAGG	CCTTCCCGAG	ACCACCCCGA	CTCGGAGAG	GGCGCCCGCG	GCGCGCTGTC
101	CAGGAACAG	GTCCTCTGTC	CAGCGGCGAG	GGCTGGGGG	CATCAGCTAC	CGGCTGAAG	AGCCAGGAG	CCNAGGAGC	CACACCGGAG
	GTCTCTCTC	CAGCGGCGAG	CGGACCGCC	GTAGTCGATC	CGCCACACAG	CGCCGACTTC	TGGTCCGTC	GGTCCGTCG	CCACCCGCTC
201	TTTGGGGAG	TTGGTGGCC	GGCCCCCAGG	CGTTCGGGG	CTCATGGGG	CCCCCATTC	TGGGCGGGG	GGCTTCGAG	TGGGGGCTC
	AAACCCCTTC	AACCAAGGG	CGGGGGGTC	GGAACGGCC	CAGTACCGC	GGGGGTAAG	ACCGGGCCC	CGCACGCTC	AGCTCCGGA
1						MetGlyp	CGGCGGTAAG	CGGCGGTAAG	CGGCGGTAAG
301	GGGCTTTTG	GGCTGGTGT	TGGGCTCAG	CTGAGGCTG	TCTACTGGAA	CTCGGGGAA	AAGAGGTTCC	AGGCAGAGG	TGGTATGTC
	CCCCAAAGC	CGGACAGAG	ACCCAGTCC	GACCTGGAG	AGATGAGCTT	GACCCGCTTA	TTCTCCAGG	TCCGTCTCC	ACCAATACAC
20	GlyValLeuG	LyLeuValSe	rglyLeuSer	LeuGluProV	alTyrTrpAs	uSerAlaAsn	LysArgPheG	LeuAlaGluG	YglyTyrVal
401	AGATCGGGGA	CGGCTAGAG	CTGCTCTGCC	CGCTCTGGC	CTCCTACTCC	CTCCTAAATTA	TGACITCTAC	AAGCTGTAC	TGCTAAGGCG
	TCTAGCCCTT	GGCCGATCTG	GACGAGAGG	GGGCGGGGG	CGGAGGACCG	GGAGTAAAT	ACTCAAGATG	TTCGACATGG	ACCATCCCCC
54	IleGlyAs	ParGluAsp	LeuLeuCysP	roArgAlaAr	gProProGly	ProHisSerS	rgluPheTyr	LysLeuTyrL	euValGlyGly
501	TGCTCAGGGC	CGGCGCTGT	AGGCACCCC	TGCCCCAAAC	CTCCTTCTCA	CTTGIGATCG	CCGAGAGCTG	GATCTCCCT	TCACCATCAA
	ACGAGTCCG	CGCGGACAC	TCCGTGGGG	ACGGGTGTTG	GAGGAAGAT	CAACACTAGC	GGGTCGGAC	CTAGAGGCGA	AGTGGTAGTT
87	AlaGlnGly	ArgArgCysG	LuAlaProPr	oAlaProAsn	LeuLeuLeuP	hrCysAspAr	gProAspLeu	AspLeuArgP	heThrIleGly
601	TATAGCCCTA	ATCTCTGGG	CCACGAGTTC	CGCTCGCACC	ACGATTACTA	CATCATTTGCC	ACATGGGATG	GGGCTGGAG	AGGCTGCAGG
	ATATCGGGAT	TAGAGACCCC	GGTGCTCAAG	CGGAGCGTGG	TGCTAATGAT	GTAGTAACCG	TCTAGCCTAC	CCTGGGCTT	CCCGGACCTC
120	TyrSerProA	snLeuTrpG	ylisGluPhe	ArgSerHisH	isAspTyrTy	rIleIleAla	ThrSerAspG	lyThrArgG	uGlyLeuGlu
701	GAGGTGTGTG	CCTAACCCAG	GGCATGAAGG	TGCTTCTCCG	ACTGGGACAA	AGTCCCCGAC	GAGGGGCTGT	CCCCCGAANA	CCTGTGTCTG
	CTCCACACAC	GGATTGSPCT	CCGTACTTCC	ACGNAGAGGC	TCAGCCCTGTT	TCAGGGGCTC	CTCCCTGGACA	GGGGCTTTT	GGACACAGAC
154	GlyValIcy	sLeuThrArg	GlyMetLysV	alLeuLeuAr	gValGlyGlu	SerProArgG	LyGlyAlaVa	lProArgLys	ProValSerG
801	GGAAGAGAC	CGAGGGGAG	CCCACAGCTT	GGAGCTTGGG	AAGAGAGACC	TGCCAGGTCA	CCCNACCCAGC	AATGCAACCT	CCCGGGCTGC
	CCTTCTCTGT	GCTCCCGCTC	GGGTGTCGGA	CCTCGGACCC	TTCTCTCTTG	ACGGTCCACT	GGGTTGGTTCG	TTAGCTTGA	GGGCCCCACG
187	GluArgAsp	ArgGlyAlaA	IaHisSerLe	uGluProGly	LysGluAsnL	eulProGlyAs	PProThrSer	AsnAlaThrS	erArgGlyAl
901	CTGGCCCTTC	CCAGCATGCC	TGCAGTGGCT	GGGGCAGCAG	GGGGGCTTGG	GCTGCTCTTG	CTGGGGCTGG	CAGGGGCTGG	GGGTCCCATG
	CACCGGGGAG	GCTCGTACCG	ACGTCACCGA	CCXGTCGTC	CCCGGAGCCG	CGACGAGAAC	GACCGGACCC	GTCCCGGACC	CCACCGGTAC
220	LeuProProp	roSerMotPr	oAlaValAla	GlyAlaAlaG	LyGlyLeuAl	aleuLeuLeu	LeuGlyVala	IaGlyAlaG	YglyAlaMet
1001	GACGCGGGC	CAAGCTTTCG	GAGATCGCC	ACCTGCTGTC	TGGCTCTCTC	CGGAGGGGAG	GGTCTCTGGG	CCTGGGGGGT	GGAGGTCCGA
	CTCCCGCCCG	GTTCGGAGC	CTCTCAGCGG	TGGGACCCAG	ACCGAGCAAG	CCCTCCCTC	CCACGAGACCC	GGACCCCGCA	CTTCCACCTT
254	ArgArgAl	aLysProSer	GluSerArgH	isProGlyPr	oGlySerPhe	GlyArgGlyG	LySerLeuG	YLeuGlyGly	GlyGlyGlyM

FIGURE 2B

1101 GGAGGCTGAG CCGGGGAGC TAGGGAATAGC TCTGCGGGGT GGCGGGGGTG CAGATCCCCC CTCTGCCCC CACTATGAGA AGGTGAGTGG TGACTATKGG
 287 CTTCCGACTC GGACCCCTCG ATCCCTATCG AGACGCCCCA CCGCCCGGAC GTCTAGGGGG GAAGACGGGG GTGATACTCT TCCACTCACC ACTGATACCC
 320 GluAlaGlu ProGlyGluL euGlyleAl euGlyleAl aLeuArgGly GlyGlyAlaA IaAspProPr oPheCysPro HisTyrluL ysValSerGI yAspTyrlGly
 1201 CATCCCTGTGT ATATCGTGCA GGATGGGCCC CCCCAGAGCC CTCCAAACAT CTACTACAAG GTATGAGGCG TCCCTCTCAG TGGCTATCCT GAATCCAGCC
 320 HisProValt yrlleValGI nAspGlyPro ProGlnSerP ioProAsnII eTyrlTylys Valop+
 1301 CTTCTTGGGG TGCTCCTCCA GTTTAATTC TGCTTGGG GACACCTCTA ACATCTCGC CCCCCTCTGCC CCCCACAGCC CTTCACCTCT CCGGCTGCT
 1401 GTCCTCGTCT CCACCTTTAG GATTCCTTAG GATTCCTTCCACT CCCCCTCTC CTGCCCTCCC GTTTGGCCAA TTTTGGCCAA CTCTGTCTCA GTCTGTCTT
 1501 ATCCCTTTTC CTGGGGAGG GGCACAGGCT CAGCCTCTTC TCTGACCAT ACCAGCCAT CCTGTCTCCC CTTCACCCACC CAGAGCTAGG GCGGGGAAACA
 1601 GCGGTGCAAA ACCAACCCGTG CCGTGTCCGA GTCCGAGGAG AGACTGGTAC TGGTCCGTA GGAACAGGGG GAGTGGGTGG GTCTCGATCC CCGCCCTTGT
 1701 CTTCCCTAGC ATCTCTCTCC CCACATCTCC TTTCACCTTC TTGGCTCTT ATCTGTGTC TCTCCCTCT CTCTCTCTCT CCGTCTCTAG GTCTGTCTT
 1801 CTTAGCTTTC AGCCCTCTT CTGACCTCTC ATACCAACCA CTCCCTCTAG TCTGCCAAA ATGGGGCCCT TATGGGGAG GCTCTGACAC TCCACCCACG
 1901 CTCAGGCCNT GGCAGCAGG GTCCCATCT CTGGCCTGGC CCAGGCCCTCT ACATCTTAC TCCAGCCATT TGGGGTGGT GGGTCATGAC AGCTACCATG
 2001 AGAGAGAGTG TCCCGTTTG TCCACTCGCC AATAGCAAGA TATGAACCG TCGGACATG TATCGACTTG GTCTGATGCT GAATGGGCA CTGGGGACCG
 2101 GAAGTGACTT GCTCCAGACA AGAGGTGACC AGGCCCGGAC AGAAATGGCC TGGGAAGTAG CAGAGGAGT GCAGCAGGAA CTGGAAGTGC CTTCAATCCAG
 2201 GACAGGAAGT AGCCTCTCTG AAACAGGAAG TGGTCTGGCT GGAATCCAA GTGGCTTAGT CTGGGGATC AGGAGGTGGG AGGTGGATGG TTCCTATTCT
 2301 GTGGAGAAGA AGGCGGGGA GAACTTCTCT TCAGGAGGAA GCCTGGAACCT ACTGACTGTA AGAGGTTAGA GCTGGACCCA
 CACCTCTCTT TCCCGGCTT CTTGAAGGAA AGTCTCTCTT CGACCTTGAA TGACTGACAT TCTCCAATCT CCACCTGGCT

FIGURE 3A

AL-2b.L 1 GNTCTAGAANTAGTGGATCCCCCGGGGCTGGAGGAATTTCGACGGGCCCT
AL-2b.L 51 GGAAGGGGTCTCTGGTGGGGCTGAGCGCTCTGCCCGGGGGGGGGGGGGGGAG
AL-2b.L 101 CAGGAAGCAGGCTCCGGCTGGGGCTGGGGGGCATCAGGTACCGGGGGTGGTC
AL-2b.L 151 CGGGCTGAAGAGGCCAGGCCAGGCCAAGGCAGGCCACCCCGGGGGGTGGGGAG
AL-2b.L 201 TTTGGGGGAATTTGGTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
AL-2b.L 251 CCCCCCATTTCTGG
AL-2b.L 301 GGGGTTTTTGG
AL-2b.L 351 CTGGGGGAATAAGAGGGTTCCAGGGCAGAGGGTGGTTATGTGCTGTACCCCTC
AL-2b.L 401 AGATCGGGGACCGGGGTAGAGCTGCTCTGGCCCCGGGGGGGGGGGGGGGGGG
AL-2b.L 451 CCTCACTCCTCTCTCTAATTATGAGTTCTACAGGCTGTACCTGGTAGGGGG
AL-2b.L 501 TGGTCAGG GGGGG GGGTGTGAGGCAAGCCCTGGGGGAAACCTTCCTTCTCA
H10006 1 GGGGA GGGTGTGAGGCAAGCCCTGGGGGAAACCTTCCTTCTCA
AL-2b.L 551 CTTGTGATCGGGGAGAGCTGGATCTCCGCTTCACCATCAAGTTCAGGAG
H10006 43 CTTGTGATCGGGGAGAGCTGGATCTCCGCTTCACCATCAAGTTCAGGAG
AL-2b.L 601 TATAGCCCTAATGTGTGGGGGACGAGTTCGGCTCGGACCCAGGATTACTA
H10006 53 TATAGCCCTAATGTGTGGGGGACGAGTTCGGCTCGGACCCAGGATTACTA
AL-2b.L 651 CATCATTCGCCACATCGGATGGGAGCCGGGGAGG GCT CGAGAGCCTGGAGG
H10006 143 CATCATTCGCCACATCGGATGGGAGCCGGGGAGG GCT GCGAGAGCCTGGAGG
AL-2b.L 701 GAG GTGTGTGCTAACCAGAGGCATGAAGGTGCTTCTCCGAGT GGGACAA
H10006 153 GAG GTGTGTGCTAACCAGAGGCATGAAGGTGCTTCTCCGAGT N GGGACAA
AL-2b.L 751 AGT C CCGGAGGAGGGGGGTGTCCCCGGAAACCTGTGTGTGAAATGGCCAT
H10006 243 AGT C CCGGAGGAGGGGGGTGTCCCCGGAAACCTGTGTGTGAAATGGCCAT
AL-2b.L 801 GGAAGAGAGCCGAGGGGGGAGGCCACAGCCT GAGCCCT GGGGAGGAGAA
H10006 293 GGAAGAGAGCCGAGGGGGGAGGCCACAGCCT GAGCCCT GGGGAGGAGAA
AL-2b.L 849 CTTGGCAGGTGACCCCAACCAGCAAT GAAACCT CCGGGGT CTTGAAGG
H10006 342 CTTGGCAGGTGACCCCAACCAGCAAT GAAACCT CCGGGGT TGGTGAAGG
AL-2b.L 897 CCCCC* GGGGCTCCAGCA TGGCTGCA GT GGGTGGGGCAGCAGG
H10006 352 CCCCCCTTGA CCGCTTCCAGCA TGGCTGCA NTTGGTGGGGCAGCAN
AL-2b.L 942 GGGG C TGGG GGTGCTCTTGGTGGGGCTGGGAGGGGCTGGGGGTGGC
H10006 442 GGGG NGTTT TGGG
AL-2b.L 998 ATGTGTGGGGGAGAGGGGGGGGCAAGCCCTTCGGAGAGTGGGGAACCTGG
AL-2b.L 1038 TGGTGGGCTCCCTGGGAGGGGAGGGTCTCTGGGGCTGGGGGGTGGAGGTG
AL-2b.L 1088 GGATGGGACCTGGGCAAGGTGAGCCTGGGAGGTAGGGATAGGTGTGGGG
AL-2b.L 1138 GGTGGGGGGGGTGGCAGATCCCCCTTCTGGGGGACATAGGAAGGTGAG

AL-2b.L 1189 TGGTGAATAAGCATCCGCTGTATATCGTGGAGGATGGCCCCCAGGA
AL-2b.L 1233 GCGCTCCAAACATCTACTACAGATCGATTTCCTGTGTGGAGTGGCCCATTA
AL-2b.L 1283 TTGGATCGGATACAACTGTCTTTCATCGGATCCAAAGTGGTCCCGTGTCAAC
AL-2b.L 1338 TACATTCTTATTTCCTGTGCAAGTTATTACGACATCGACTTGGCCGATGA
AL-2b.L 1388 GTTCATTTAGCTTTACGAGCCCTGAACCCATCCATGCCAGGCGTGCAGAGCA
AL-2b.L 1438 CAGATGGGGGAATTCCGATCAGATGGTGTTCCTGGGGGGACAGGATCCT
AL-2b.L 1488 GGGTACGGCTCTGTTTGTGCTTGTGCTTATCTCTCTCTTGGGAGGCTGA
AL-2b.L 1538 ATATGCATCAGACGACACTGCTCGGGCAACGGGCCAGTGTGAGGGGGGA
AL-2b.L 1588 GCGGGCCAGCATGGTCCCTGTGATAGGATTGAAGAGGCTACTGAGATA
AL-2b.L 1638 GGGGGCTTCTCAATGAGAGAGCGCAGGCTGCTGTTATCATGGGAACGAG
AL-2b.L 1688 CAGATCAATCATCCCTGGCAGGTCAGGGCAGGAAGTTACTTAGCTTCTCT
AL-2b.L 1738 TCACCTTCTTCCACAGAAATTTATTATAGGCTTGTTCGAAGTGTAGTGT
AL-2b.L 1788 GTGATCAGATTGGTGGTGGCTGTGAGCTCTGTGCTACCTGGCACTTCCCC
AL-2b.L 1838 TCATGGAAATTCGATATCAAGCTTATCGATACCGTCCACCT

FIGURE 3B

lerk2 1 MA R P G Q R V W L V A M V V W A L C R I A T P L A K N L E F V S W N P K F L S G K G
huHTKL 1 MA V R R D S Y W K Y C W G V L M V - - L C R T A I S K S I V L E F I Y W K S S V S K F L D S G Q
AL2.sht 1 M G P P H S G P G G V R V G A L L L L S V L G L V S G L - - S L E P V Y W H S A N K R F O A E G G
AL2.long 1 M G P P H S G P G G V R V G A L L L L G V L G L V S G L - - S L E P V Y W H S A N K R F O A E G G

lerk2 50 V I Y P K I G D K L D I I C P R A - - E A G R - - P Y E Y Y K L Y L V R P E Q A A A C S T V L D
huHTKL 48 V L Y P Q I G D K L D I I C P K V - - D S K T V G Q Y E Y Y K V Y M V C K D Q A D R C T K K E
AL2.sht 48 Y V L Y P Q I G D R L D L L C P R A R P P G P H S S P N Y E F Y K L Y L V G G A Q G R R C E A P P A
AL2.long 48 Y V L Y P Q I G D R L D L L C P R A R P P G P H S S P N Y E F Y K L Y L V G G A Q G R R C E A P P A

lerk2 95 P N V L V T C N A P E D E I R F T I K F Q E F S P N Y M G L E F K K N H D Y Y I T S T S N G S L E G
huHTKL 95 H T P L L N C A K P Q Q D I K F T I K F Q E F S P N L W G L E F C K N K D Y Y I I S T S N G S L E G
AL2.sht 96 P N L L L T C D R P D L D L R F T I K F Q E Y S P N L W G H E F R S H D Y Y I I A T S D G T R E G
AL2.long 96 P N L L L T C D R P D L D L R F T I K F Q E Y S P N L W G H E F R S H D Y Y I I A T S D G T R E G

lerk2 145 L E N R E G G V C A T R T M K I I N K V C O D P N A V T P E Q L T T S R P S K E A D N T Y K M A T Q
huHTKL 145 L D N Q E G G V C O T R A M K I L N K V G O C A S S - - - - A G S T R N K C P T R R P E L E A G
AL2.sht 146 L E S L Q G G V C L T R G M K V L L R V G Q S P R G G A V P R K P V E M P N E R D R G A A H S L E
AL2.long 146 L E S L Q G G V C L T R G M K V L L R V G Q S P R G G A V P R K P V E M P N E R D R G A A H S L E

lerk2 195 A P G S R G S L Q D S D G K H E T V N C E E K S G P G A S G G S G D P D G F F N S K V A L F A A V
huHTKL 199 T N G R S S T T S P F V Y F N P O S S T D O N S A G H S G - - - - N N I L G S E V A L F A G I
AL2.sht 198 P G K E N L P G D P T S N A T S R G A E G P L P P P S M P A V A G A A G G L - - A L L L L G V A
AL2.long 198 P G K E N L P G D P T S N A T S R G A E G P L P P P S M P A V A G A A G G L - - A L L L L G V A

lerk2 245 G A G G V I F L L I I I F L T V L L L K L R K R H R K H T Q - O R A A A L S L S T L A S P K G G S G
huHTKL 232 A S G C I I F I V I I I T L V L L L K Y R R R H R K H S P - G H T I L S L S T L A I T P K R S G N
AL2.sht 244 G A G G A - - - - M C W R R R R A K P S E E R H P G P G G F G R G G S L G L G G - - - G G G M G
AL2.long 244 G A G G A - - - - M C W R R R R A K P S E E R H P G P G G S F G R G G S L G L G G - - - G G G M G

lerk2 294 T A G T E P S D I I I P L R - - T T E N N Y C P H Y E K V S G C Y G H P V Y I V O E M P P O S P A
huHTKL 292 N Y G S E P S D I I I P L R - - T A D S F C P H Y E K V S G C Y G H P V Y I V O E M P P O S P A
AL2.sht 295 P R E A E P G E L G I A L R G G G A A D P P F C P H Y E K V S G C Y G H P V Y I V O D G P P O S P P
AL2.long 295 P R E A E P G E L G I A L R G G G A A D P P F C P H Y E K V S G C Y G H P V Y I V O D G P P O S P P

lerk2 341 N I Y Y - - - - -
huHTKL 328 N I Y Y - - - - -
AL2.sht 323 N I Y Y - - - - -
AL2.long 335 N I Y Y T S I S V L E W P I L H T I O L F F W R S K C S R V T T F L F P V O V I T T S T O R M T S F

lerk2 343 - - - - - K V - - - - -
huHTKL 332 - - - - - K V - - - - -
AL2.sht 335 - - - - - K V - - - - -
AL2.long 385 S F T T L N P S M O A C R A Q M G E F R I R W C F W G D R I L G T A L F V L V I L L L G R L N M H

AL2.long 435 C T T L L R O R A S V E A E A G O H G P L

FIGURE 4

LERK2.1 1 MA R P G O R S K W L V A M V V W A L C R L A T P L A K N L E P V S S L N P K F L S G K G
 huHTKL 1 M A V R R D S V W K Y C W G V L M V . . . L C R T A I S K S I V L E P I Y W N S S N S K F L P G O G
 ALII.long 1 M G P P H S G P - G G V R V G A L L L . . L G V L G L V S G L S L E P V Y W N S A N K R F O A E G G

LERK2.1 50 L V I Y P K I G D K L D I I C P R A . . . E A G R . . P Y E Y K L Y L V R P E O A A A C S T V L D
 huHTKL 48 L V L Y P Q I G D K L D I I C P K V . . . D S K T V G Q Y E Y K V Y M V D K D Q A D R C T I K K E
 ALII.long 48 Y V L Y P Q I G D R L D L L C P R A R P P G P H S S P N Y E F Y K L Y L V G G A Q G R C E A P P A

LERK2.1 95 P N V L V T C N R P E Q E I R F T I K F O E F S P N Y M G L E F K K H H D Y Y I T S T S N G S L E G
 huHTKL 95 N T P L L N C A K P D O D I K F T I K F O E F S P N L W G L E F O K N K D Y Y I I S T S N G S L E G
 ALII.long 98 P N L L L T C D R P D L D L R F T I K F O E Y S P N L W G H E F R S H H D Y Y I I A T S D G T R E G

LERK2.1 145 L E N R E G G V C R T R T M K I I M K V G O D P N A V T P E Q L T T S R P S K E A D N T V K M A T O
 huHTKL 145 L D N Q E G G V C Q T R A M K I L M K V G O D A S S A G S T R N K D P T R R P E L E A G
 ALII.long 148 L E S L O G G V C L T R G M K V L L R V G S S P R G G A V P R K P V S E M P M E - R

LERK2.1 195 A P G S R G S L G D S D G K H E T V N O E E K S G P G A S G G S S G D P D G F F N S K V A L F A A V
 huHTKL 189 T N G . R S S T T S P F V K P N P G S S T D G N S A G H S G N N I L G S E V A L F A G I
 ALII.long 189 D R G A A H S L E P G K E N L P G D P T S N A T S R G A E G P L P P S M P A V A G A

LERK2.1 245 G A G C V I F L L I I I F L T V L L L K L R K R H R K H T Q Q R A A A L S L . . . S T L A S P K G G
 huHTKL 232 A S G C I I F I V I I I T L V V L L L K Y R R R H R K H S P Q H T T T L S L . . . S T L A T P K R S
 ALII.long 232 A G G L A L L L L G V A G A G G A M C W R R R R A K P S E S R H P G P G S F G R G G S L G L G G G G

LERK2.1 292 S - G T A G T E P S D I I I P L R . . . T T E N N Y C P H Y E K V S G D Y G H P V Y I V O E M P P O
 huHTKL 279 G - N N N G S E P S D I I I P L R . . . T A D S V F C P H Y E K V S G D Y G H P V Y I V O E M P P O
 ALII.long 282 G M G P R E A E P G E L G I A L R G G G A A D P P F C P H Y E K V S G D Y G H P V Y I V O D G P P O

LERK2.1 338 S P A N I Y Y
 huHTKL 325 S P A N I Y Y
 ALII.long 332 S P P N I Y Y T S I S V L E W P I L H T I Q L F F M R S K C S R V T T F L F P V Q V I T T S T C R M

LERK2.1 345 K V
 huHTKL 332 K V
 ALII.long 382 T S F S F T T L N P S M O A C R A O M G E F R I R W C F W G D R I L G T A L F V L V L I L L L G R L

ALII.long 432 N M H Q T T L L R O R A S V E A E A G Q H G P L

FIGURE 5